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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=11; day=24; hr=8; min=45; sec=17; ms=926;]

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Application No: 10573427 Version No: 1.0

Input Set:

Output Set:

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Finished: 2010-11-23 13:00:34.863
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 911 ms
Total Warnings: 7
Total Errors: 0
No. of SeqIDs Defined: 7
Actual SeqID Count: 7

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<141> 2010-11-23

<150> PCT/US2005/047572

<151> 2005-12-30

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Leu | Ser | Glu | Ser | Val | Leu | Ser | Pro | Pro | Cys | Phe | Val | Arg | Asn |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Trp | Lys | Ile | Met | Val | Met | Pro | Arg | Phe | Tyr | Pro | Asp | Arg | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gln | Lys | Ser | Val | Gly | Phe | Phe | Leu | Gln | Cys | Asn | Ala | Glu | Ser | Asp |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Ser | Trp | Ser | Cys | His | Ala | Gln | Ala | Val | Leu | Lys | Ile | Ile | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Asp | Asp | Glu | Lys | Ser | Phe | Ser | Arg | Arg | Ile | Ser | His | Leu | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | His | Lys | Glu | Asn | Asp | Trp | Gly | Phe | Ser | Asn | Phe | Met | Ala | Trp | Ser |
| | | | 100 | | | | | 105 | | | | | | 110 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Thr | Asp | Pro | Glu | Lys | Gly | Phe | Ile | Asp | Asp | Asp | Lys | Val | Thr |
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Phe Glu Val Phe Val Gln Ala
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Thr Arg Arg Cys His Glu Ser Ala Cys Gly Arg Thr Val Ser Leu Phe
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Ser Pro Ala Phe Tyr Thr Ala Lys Tyr Gly Tyr Lys Leu Cys Leu Leu
35 40 45

Tyr Leu Asn Gly Asp Gly Thr Gly Lys Arg Thr His Leu Ser Leu Phe
50 55 60

Ile Val Ile Met Arg Gly Glu Tyr Asp Ala Leu Leu Pro Trp Pro Phe
65 70 75 80

Arg Asn Lys Val Thr Phe Met Leu Leu Asp Gln Asn Asn Arg Glu His
85 90 95

Ala Ile Asp Ala Phe Arg Pro Asp Leu Ser Ser Ala Ser Phe Gln Arg
100 105 110

Pro Gln Ser Glu Thr Asn Val Ala Ser Gly Cys Pro Leu Phe Phe Pro
115 120 125

Leu Ser Lys Leu Gln Ser Pro Lys His Ala Tyr Val Lys Asp Asp Thr
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Met Phe Leu Lys Cys Ile Val Glu
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Ser Pro Ala Phe Tyr Thr Ser Arg Tyr Gly Tyr Lys Met Cys Leu Arg
35 40 45

Ile Tyr Leu Asn Gly Asp Gly Thr Gly Arg Gly Thr His Leu Ser Leu
50 55 60

Phe Phe Val Val Met Lys Gly Pro Asn Asp Ala Leu Leu Arg Trp Pro
65 70 75 80

Phe Asn Gln Lys Val Thr Leu Met Leu Leu Asp Gln Asn Asn Arg Glu
85 90 95

His Val Ile Asp Ala Phe Arg Pro Asp Val Thr Ser Ser Ser Phe Gln
100 105 110

Arg Pro Val Asn Asp Met Asn Ile Ala Ser Gly Cys Pro Leu Phe Cys
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Ile Phe Ile Lys Ala Ile Val Asp Leu
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Val Tyr Leu Asn Gly Asp Gly Met Gly Lys Gly Thr His Leu Ser Leu
50 55 60

Phe Phe Val Ile Met Arg Gly Glu Tyr Asp Ala Leu Leu Pro Trp Pro
65 70 75 80

Phe Lys Gln Lys Val Thr Leu Met Leu Met Asp Gln Gly Ser Ser Arg
85 90 95

Arg His Leu Gly Asp Ala Phe Lys Pro Asp Pro Asn Ser Ser Ser Phe
100 105 110

Lys Lys Pro Thr Gly Glu Met Asn Ile Ala Ser Gly Cys Pro Val Phe
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Val Ala Gln Thr Val Leu Glu Asn Gly Thr Tyr Ile Lys Asp Asp Thr
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Ile Phe Ile Lys Val Ile Val Asp Thr Ser Asp Leu
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Pro Ala Phe Tyr Thr His Lys Tyr Gly Tyr Lys Leu Gln Val Ser Ala
35 40 45

Phe Leu Asn Gly Asn Gly Ser Gly Glu Gly Thr His Leu Ser Leu Tyr
50 55 60

Ile Arg Val Leu Pro Gly Ala Phe Asp Asn Leu Leu Glu Trp Pro Phe
65 70 75 80

Ala Arg Arg Val Thr Phe Ser Leu Leu Asp Gln Ser Asp Pro Gly Leu
85 90 95

Ala Lys Pro Gln His Val Thr Glu Thr Phe His Pro Asp Pro Asn Trp
100 105 110

Lys Asn Phe Gln Lys Pro Gly Thr Trp Arg Gly Ser Leu Asp Glu Ser
115 120 125

Ser Leu Gly Phe Gly Tyr Pro Lys Phe Ile Ser His Gln Asp Ile Arg
130 135 140

Lys Arg Asn Tyr Val Arg Asp Asp Ala Val Phe Ile Arg Ala Ala Val
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Glu Leu Pro Arg Lys
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20 25 30

Ser Gln Ser Phe Tyr Thr Ser Arg Cys Gly Tyr Arg Leu Cys Ala Arg
35 40 45

Ala Tyr Leu Asn Gly Asp Gly Ser Gly Arg Gly Ser His Leu Ser Leu
50 55 60

Tyr Phe Val Val Met Arg Gly Glu Phe Asp Ser Leu Leu Gln Trp Pro
65 70 75 80

Phe Arg Gln Arg Val Thr Leu Met Leu Leu Asp Gln Ser Gly Lys Lys
85 90 95

Asn Ile Met Glu Thr Phe Lys Pro Asp Pro Asn Ser Ser Ser Phe Lys
100 105 110

Arg Pro Asp Gly Glu Met Asn Ile Ala Ser Gly Cys Pro Arg Phe Val
115 120 125

Ala His Ser Val Leu Glu Asn Ala Lys Asn Ala Tyr Ile Lys Asp Asp
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Thr Leu Phe Leu Lys Val Ala Val Asp Leu Thr Asp Leu
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20 25 30

Ser Pro Gly Phe Tyr Thr Gly Lys Pro Gly Tyr Lys Leu Cys Met Arg
35 40 45

Leu His Leu Gln Leu Pro Thr Ala Gln Arg Cys Ala Asn Tyr Ile Ser
50 55 60

Leu Phe Val His Thr Met Gln Gly Glu Tyr Asp Ser His Leu Pro Trp
65 70 75 80

Pro Phe Gln Gly Thr Ile Arg Leu Thr Ile Leu Asp Gln Ser Glu Ala
85 90 95

Pro Val Arg Gln Asn His Glu Glu Ile Met Asp Ala Lys Pro Glu Leu
100 105 110

Leu Ala Phe Gln Arg Pro Thr Ile Pro Arg Asn Pro Lys Gly Phe Gly
115 120 125

Tyr Val Thr Phe Met His Leu Glu Ala Leu Arg Gln Arg Thr Phe Ile
130 135 140

Lys Asp Asp Thr Leu Leu Val Arg Cys Glu Val Ser Thr Arg Phe Asp
145 150 155 160